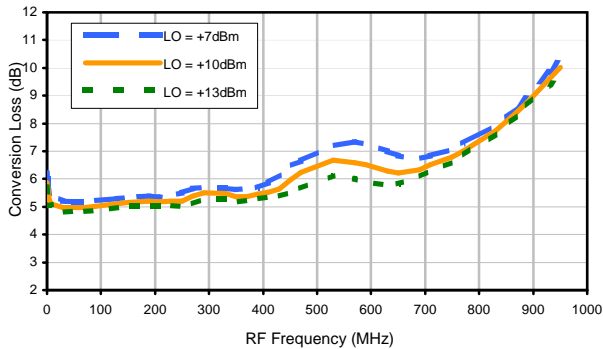


Frequency Mixer

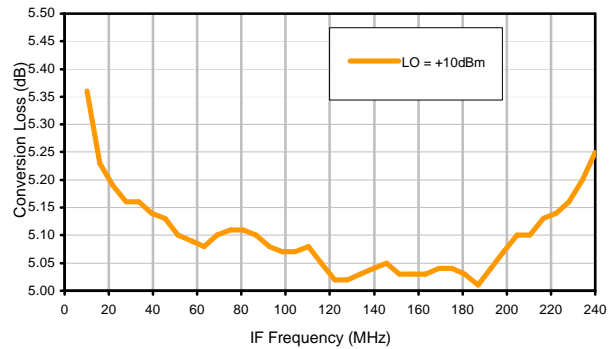
ADE-1LH+

Typical Performance Curves

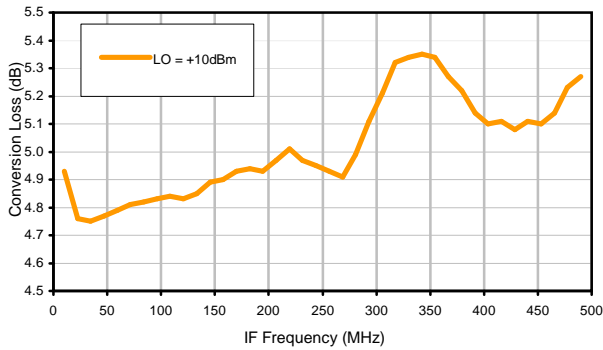
Conversion Loss @ IF=30MHz



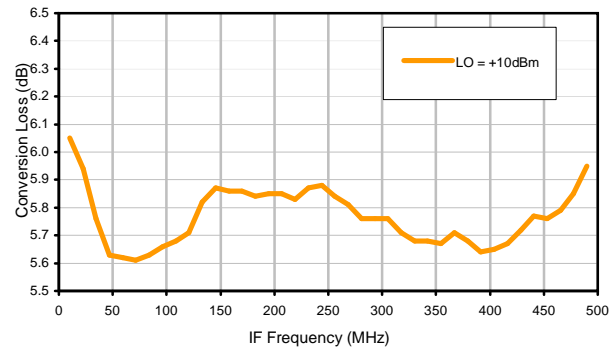
Conversion Loss vs. IF @ RF=250.1MHz



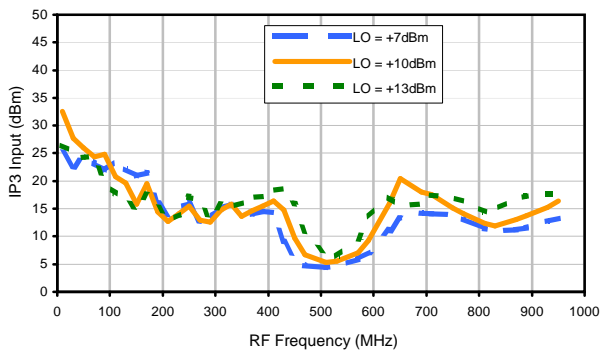
Conversion Loss vs. IF @ RF=10.1MHz



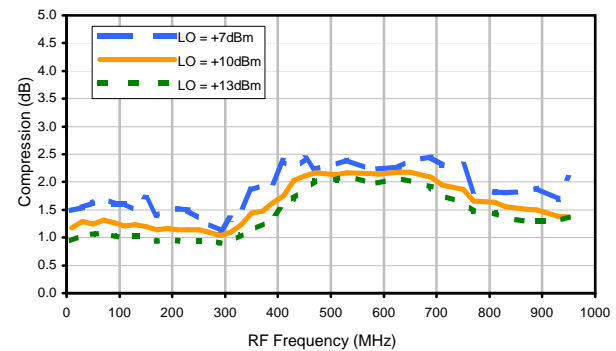
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

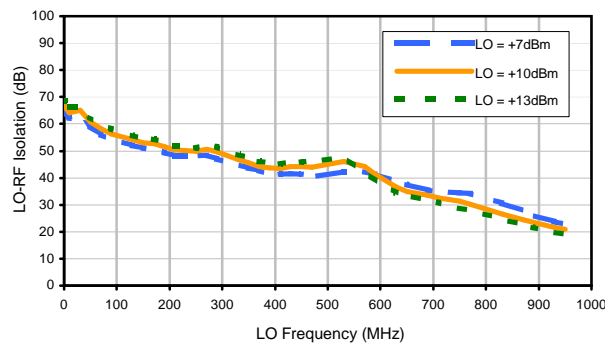


Compression @ RF IN=+5dBm

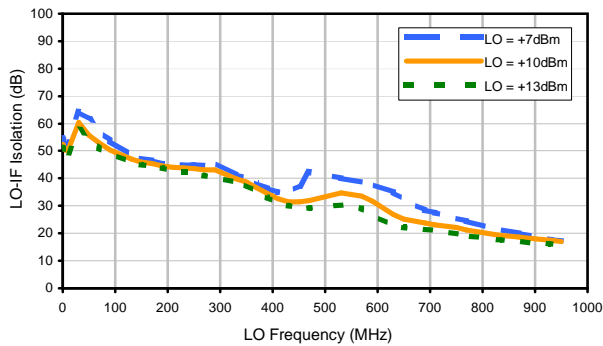


Typical Performance Curves

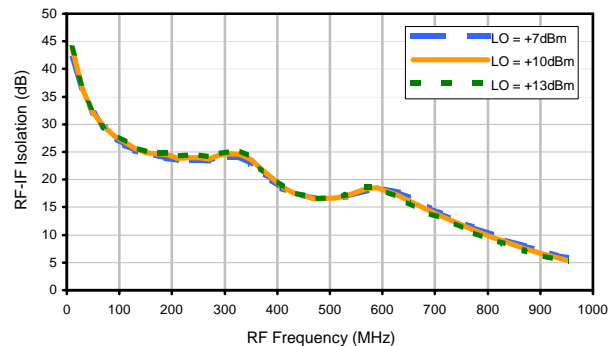
LO-RF Isolation



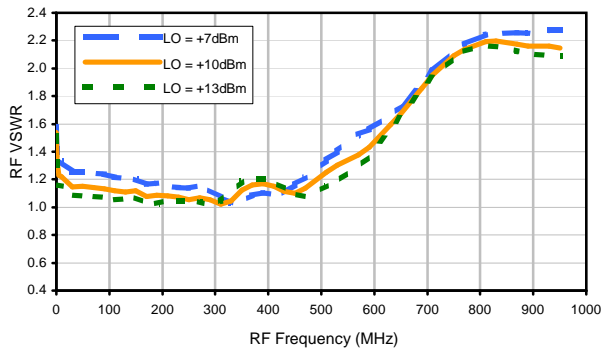
LO-IF Isolation



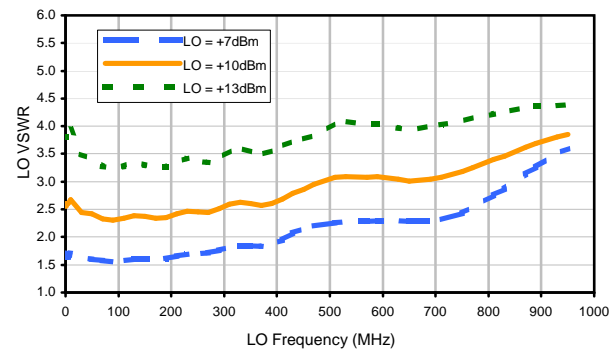
RF-IF Isolation



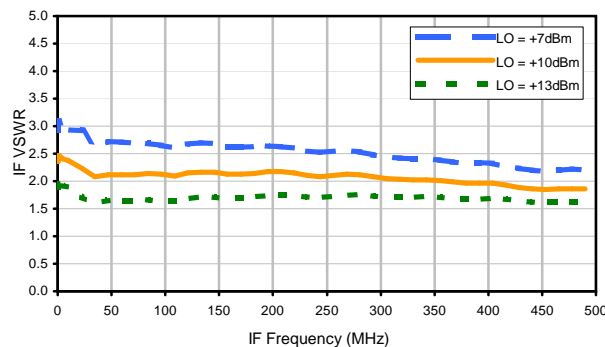
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	40	25	47	27	52	37	61	59	55
1	-	20	+0	29	12	34	23	41	38	52	59	57
2	93	61	41	79	42	59	42	58	45	72	55	75
3	>100	42	39	47	42	47	36	44	45	51	55	61
4	>100	87	59	67	56	71	56	71	52	62	58	70
5	>100	65	63	61	48	68	47	63	46	64	61	71
6	>100	85	77	87	75	81	73	80	67	73	75	76
7	>100	>95	78	77	73	67	66	69	65	64	56	63
8	>100	>95	94	>95	90	>95	81	85	76	82	72	81
9	>100	92	93	90	83	81	71	82	73	>95	70	80
10	>100	>95	>95	>95	>95	>95	88	90	84	94	86	88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 0.00 dBm.
 LO IN: 280.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -5.15 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	28	14	34	15	41	24	49	40	40
1	-	19	+0	27	11	32	21	35	37	47	45	47
2	>100	69	47	72	48	75	45	60	50	71	57	>85
3	>100	71	57	73	56	75	55	77	66	77	73	>85
4	>100	>85	>85	>85	>85	>85	82	>85	81	>85	>85	>85
5	>100	>85	>85	>85	>85	>85	>85	>85	82	>85	>85	>85
6	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>100	>85	>85	>85	>85	>85	>85	83	>85	>85	>85	>85
8	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>100	>85	>85	>85	>85	>85	>85	>85	>85	76	>85	>85
10	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	67	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -10.00 dBm.
 LO IN: 280.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -15.1 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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